

Amended Abstract

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ABSTRACT OF THE DISCLOSURE

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The present invention provides improved devices, methods, and kits for inhibiting restenosis and hyperplasia after intravascular intervention. In particular, the present invention provides controlled radiosensitizer delivery in combination with ionizing radiation to selected locations within a patient's vasculature to reduce and/or inhibit restenosis and hyperplasia rates with increased efficacy. In one embodiment, the combination radiation and radiosensitizer delivery catheter for inhibiting hyperplasia comprises a catheter body having a proximal end and distal end, an ionizing radiation source coupleable to the catheter body for applying a radiation dose to a body lumen, and a porous material, matrix, membrane, barrier, coating, infusion lumen, stent, graft, or reservoir for releasing an radiosensitizer to the body lumen.